

1 CLAIMS

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5 1. A stone cutting system, comprising:  
6 a retaining unit having at least one trough for receiving a plurality of stone  
7 members; and

8 a cutting unit having at least one blade, wherein said at least one blade is  
9 capable of being extended within said at least one trough for cutting a plurality of  
10 stone members into a plurality of stone pieces.

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13 2. The stone cutting system of Claim 1, wherein said at least one trough is  
14 comprised of an elongate structure.

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17 3. The stone cutting system of Claim 1, wherein said at least one trough has a  
18 uniform width.

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21 4. The stone cutting system of Claim 1, wherein said at least one trough has an  
22 adjustable width.

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25 5. The stone cutting system of Claim 1, wherein said at least one trough has a  
26 first end and an opposing second end.

1           6. The stone cutting system of Claim 1, wherein said at least one trough  
2 includes a compression member that is capable of compressing a plurality of stone  
3 members in a longitudinal manner.  
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6           7. The stone cutting system of Claim 6, wherein said compression member is  
7 positioned within an end of said at least one trough.  
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10          8. The stone cutting system of Claim 6, including at least one actuator unit  
11 attached to said compression member.  
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14          9. The stone cutting system of Claim 1, wherein said at least one trough  
15 includes a floor.  
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18          10. The stone cutting system of Claim 9, wherein said floor includes a plurality  
19 of slots that allow for the passing through of a plurality of cut stone pieces.  
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22          11. The stone cutting system of Claim 10, wherein said plurality of slots are  
23 substantially parallel to a longitudinal axis of said at least one trough.  
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26          12. The stone cutting system of Claim 9, wherein said floor is movably  
27 attached to said retaining unit for allowing the passing through of a plurality of cut  
28 stone pieces.  
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2           13. The stone cutting system of Claim 1, wherein said retaining unit is  
3 movably positioned with respect to said cutting unit along a path substantially  
4 transverse to a cutting path of said cutting unit.

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7           14. The stone cutting system of Claim 1, including a conveyor unit positioned  
8 beneath said retaining unit for transferring a plurality of cut stone pieces.

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11           15. The stone cutting system of Claim 1, wherein said cutting unit is comprised  
12 of a gang saw.

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15           16. The stone cutting system of Claim 1, wherein cutting unit is movable in a  
16 vertical manner.

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19           17. The stone cutting system of Claim 1, wherein said cutting unit is movably  
20 in a horizontal manner substantially parallel to said at least one trough.

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23           18. A method of cutting a plurality of stone members, said method comprising:  
24 positioning a plurality of first stone members within a first trough; and  
25 cutting said plurality of first stones within said elongated trough.

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28           19. The method of cutting a plurality of stone members of Claim 18, including  
29 cutting a plurality of second stone members within a second trough.